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**RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/133,119**

DATE: 05/18/1999  
TIME: 15:36:25

*INPUT SET: S31902.raw*

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

1 SEQUENCE LISTING

3 (1) General Information:

(ii) TITLE OF INVENTION: ANTI-TNF ANTIBODIES AND PEPTIDES  
OF HUMAN TUMOR NECROSIS FACTOR

15 (iii) NUMBER OF SEQUENCES: 19

17 (iv) CORRESPONDENCE ADDRESS:

18                   (A) ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
19                   (B) STREET: Two Militia Drive  
20                   (C) CITY: Lexington  
21                   (D) STATE: Massachusetts  
22                   (E) COUNTRY: USA  
23                   (F) ZIP: 02173

25 (v) COMPUTER READABLE FORM:

26 (A) MEDIUM TYPE: Floppy disk  
27 (B) COMPUTER: IBM PC compatible  
28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
29 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

31 (vi) CURRENT APPLICATION DATA:

32 (A) APPLICATION NUMBER: 09/133,119  
33 (B) FILING DATE:

35 (vii) PRIOR APPLICATION DATA:

36 (A) APPLICATION NUMBER: 08/570,674  
37 (B) FILING DATE: 11-DEC-1995

39 (vii) PRIOR APPLICATION DATA:

40 (A) APPLICATION NUMBER: 08/324,799  
41 (B) FILING DATE: 18-OCT-1994

43 (vii) PRIOR APPLICATION DATA:

44 (A) APPLICATION NUMBER: 08/192,093  
45 (B) FILING DATE: 04-FEB-1994

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**RAW SEQUENCE LISTING  
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47 (vii) PRIOR APPLICATION DATA:  
48 (A) APPLICATION NUMBER: 08/192,102  
49 (B) FILING DATE: 04-FEB-1994  
50  
51 (vii) PRIOR APPLICATION DATA:  
52 (A) APPLICATION NUMBER: 08/192,861  
53 (B) FILING DATE: 04-FEB-1994  
54  
55 (vii) PRIOR APPLICATION DATA:  
56 (A) APPLICATION NUMBER: US 08/013,413  
57 (B) FILING DATE: 02-FEB-1993  
58  
59 (vii) PRIOR APPLICATION DATA:  
60 (A) APPLICATION NUMBER: US 08/010,406  
61 (B) FILING DATE: 29-JAN-1993  
62  
63 (vii) PRIOR APPLICATION DATA:  
64 (A) APPLICATION NUMBER: US 07/943,852  
65 (B) FILING DATE: 11-SEP-1992  
66  
67  
68  
69 (vii) PRIOR APPLICATION DATA:  
70 (A) APPLICATION NUMBER: US 07/853,606  
71 (B) FILING DATE: 18-MAR-1992  
72  
73 (vii) PRIOR APPLICATION DATA:  
74 (A) APPLICATION NUMBER: US 07/670,827  
75 (B) FILING DATE: 18-MAR-1991  
76  
77 (viii) ATTORNEY/AGENT INFORMATION:  
78 (A) NAME: Brook, David E.  
79 (B) REGISTRATION NUMBER: 22,592  
80 (C) REFERENCE/DOCKET NUMBER: NYU93-01M4A  
81  
82 (ix) TELECOMMUNICATION INFORMATION:  
83 (A) TELEPHONE: (617) 861-6240  
84 (B) TELEFAX: (617) 861-9540  
85  
86  
87 (2) INFORMATION FOR SEQ ID NO:1:  
88  
89 (i) SEQUENCE CHARACTERISTICS:  
90 (A) LENGTH: 157 amino acids  
91 (B) TYPE: amino acid  
92 (D) TOPOLOGY: linear  
93  
94 (ii) MOLECULE TYPE: peptide  
95  
96 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
97  
98 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val  
99 1 5 10 15

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100 Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg  
101 20 25 30  
102  
103 Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu  
104 35 40 45  
105  
106 Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe  
107 50 55 60  
108  
109 Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile  
110 65 70 75 80  
111  
112 Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala  
113 85 90 95  
114  
115 Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys  
116 100 105 110  
117  
118 Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys  
119 115 120 125  
120  
121 Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe  
122 130 135 140  
123  
124 Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu  
125 145 150 155  
126  
127  
128  
129

## 130 (2) INFORMATION FOR SEQ ID NO:2:

131  
132 (i) SEQUENCE CHARACTERISTICS:  
133 (A) LENGTH: 321 base pairs  
134 (B) TYPE: nucleic acid  
135 (C) STRANDEDNESS: single  
136 (D) TOPOLOGY: linear  
137  
138

139 (ii) MOLECULE TYPE: cDNA  
140  
141

142 (ix) FEATURE:  
143 (A) NAME/KEY: CDS  
144 (B) LOCATION: 1..321  
145  
146

147 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
148

149 GAC ATC TTG CTG ACT CAG TCT CCA GCC ATC CTG TCT GTG AGT CCA GGA 48  
150 Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly  
151 1 5 10 15  
152

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153	GAA AGA GTC AGT TTC TCC TGC AGG GCC AGT CAG TTC GTT GGC TCA AGC	96		
154	Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser			
155	20	25	30	
156				
157	ATC CAC TGG TAT CAG CAA AGA ACA AAT GGT TCT CCA AGG CTT CTC ATA	144		
158	Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile			
159	35	40	45	
160				
161	AAG TAT GCT TCT GAG TCT ATG TCT GGG ATC CCT TCC AGG TTT AGT GGC	192		
162	Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly			
163	50	55	60	
164				
165	AGT GGA TCA GGG ACA GAT TTT ACT CTT AGC ATC AAC ACT GTG GAG TCT	240		
166	Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser			
167	65	70	75	80
168				
169	GAA GAT ATT GCA GAT TAT TAC TGT CAA CAA AGT CAT AGC TGG CCA TTC	288		
170	Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe			
171	85	90	95	
172				
173	ACG TTC GGC TCG GGG ACA AAT TTG GAA GTA AAA	321		
174	Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys			
175	100	105		
176				
177				
178	(2) INFORMATION FOR SEQ ID NO:3:			
179				
180	(i) SEQUENCE CHARACTERISTICS:			
181	(A) LENGTH: 107 amino acids			
182	(B) TYPE: amino acid			
183	(D) TOPOLOGY: linear			
184				
185	(ii) MOLECULE TYPE: protein			
186				
187	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:			
188				
189	Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly			
190	1	5	10	15
191				
192	Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser			
193	20	25	30	
194				
195	Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile			
196	35	40	45	
197				
198	Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly			
199	50	55	60	
200				
201	Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser			
202	65	70	75	80
203				
204	Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe			
205	85	90	95	

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206  
207 Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys  
208 100 105  
209

210 (2) INFORMATION FOR SEQ ID NO:4:

211  
212 (i) SEQUENCE CHARACTERISTICS:  
213 (A) LENGTH: 357 base pairs  
214 (B) TYPE: nucleic acid  
215 (C) STRANDEDNESS: single  
216 (D) TOPOLOGY: linear  
217

218 (ii) MOLECULE TYPE: cDNA  
219

220  
221 (ix) FEATURE:  
222 (A) NAME/KEY: CDS  
223 (B) LOCATION: 1..357  
224

225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

226 GAA GTG AAG CTT GAG GAG TCT GGA GGA GGC TTG GTG CAA CCT GGA GGA 48  
227 Glu Val Lys Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly  
228 1 5 10 15  
229

230  
231 TCC ATG AAA CTC TCC TGT GTT GCC TCT GGA TTC ATT TTC AGT AAC CAC 96  
232 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His  
233 20 25 30  
234

235 TGG ATG AAC TGG GTC CGC CAG TCT CCA GAG AAG GGG CTT GAG TGG GTT 144  
236 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val  
237 35 40 45  
238

239 GCT GAA ATT AGA TCA AAA TCT ATT AAT TCT GCA ACA CAT TAT GCG GAG 192  
240 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu  
241 50 55 60  
242

243 TCT GTG AAA GGG AGG TTC ACC ATC TCA AGA GAT GAT TCC AAA AGT GCT 240  
244 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala  
245 65 70 75 80  
246

247 GTC TAC CTG CAA ATG ACC GAC TTA AGA ACT GAA GAC ACT GGC GTT TAT 288  
248 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr  
249 85 90 95  
250

25

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**SEQUENCE VERIFICATION REPORT  
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Original Text